Patent Attorney's Docket No.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of

Jong Jin Park et al.

Application No.: 10/814,264

Filed: April 1, 2004

For:

PHOTOSENSITIVE SEMICONDUCTOR)

NANOCRYSTALS, PHOTOSENSITIVE)

COMPOSITION COMPRISING

SEMICONDUCTOR NANOCRYSTALS AND METHOD FOR FORMING

SEMICONDUCTOR NANOCRYSTAL

PATTERN USING THE SAME

Group Art Unit:

Examiner:

Confirmation No.: 8445

PETITION TO ACCEPT COLOR DRAWINGS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.84(a)(2) and (b)(2), Applicant(s) hereby petitions for acceptance of the color drawings enclosed herewith as formal drawings for inclusion in the above-cited application. Triplicates of color drawings for each color drawing are provided. The color drawings are necessary for a complete understanding of the present invention. Entry of these drawings pursuant to 37 C.F.R. § 1.84 is respectfully requested. Should the enclosed drawings require changes, it is respectfully requested that the U.S. Patent and Trademark Office notify the undersigned of same. The specification contains a statement as the first paragraph of the Brief Description of the Drawings alerting the reader to color drawings associated with the above-indicated application.

The Petition fee of \$130.00 (1464) is enclosed herewith. The Director is hereby authorized to charge any additional fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, or to credit any overpayment, to Deposit Account No. 02-4800.

04/08/2005 JADDO1 00000071 10814264

Respectfully submitted,

01 FC:1464

130.00 OP

BURNS, DOANE, SWECKER & MATHIS, L.L.P

Date: April 7, 2005

Charles F. Wieland III Registration No. 33,096



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTN: DRAFTING BRANCH

Jong Jin Park et al.

N/A Allowed:

Application No.: 10/814,264

Group Art Unit:

Filing Date:

April 1, 2004

Examiner:

Title:

Confirmation No.: 8445 PHOTOSENSITIVE SEMICONDUCTOR NANOCRYSTALS, PHOTOSENSITIVE COMPOSITION

COMPRISING SEMICONDUCTOR NANOCRYSTALS AND METHOD FOR FORMING

SEMICONDUCTOR NANOCRYSTAL PATTERN USING THE SAME

SUBMISSION OF DRAWINGS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed please find 4 sheet(s) of drawings for review by the Patent and Trademark Office. Should the enclosed drawing(s) require changes, it is respectfully requested that the Patent and Trademark Office notify the undersigned of same.

By

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404 Alexandria, Virginia 22313-1404

(703) 836-6620

Date: April 7, 2005

Charles F. Wieland III

Registration No/ 33,096



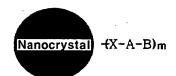


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FIGURES

Fig. 1



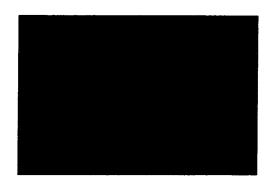
 $X : -COO, -S, -NH_2, -CN, etc.$

 $A: -(CR_2)_n-, -(CR_2)_n-COO-, -(CR_2)_n-NHCO-, -(CR_2)_n-OCO-, -(CR_2)_n-O-,$

n is 0, or an integer of 1 or more]

B:-CR₁=CR₂R₃ [in which R₁ is H, -COOH, C_{1-3} alkyl group, halogen group, halogenated alkyl group, and R₂ and R₃ is independently H, C_{1-30} alkyl group, -CN, -COOH, halogen group, unsaturated aliphatic hydrocarbon group having at least one carbon-carbon double bond, $-\bigcirc$, $-\bigcirc$ (wherein R' is halogen group, nitro group, hydroxy group, etc.), etc.]

Fig. 2

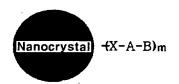


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FIGURES

Fig. 1



 $X : -COO, -S, -NH_2, -CN, etc.$

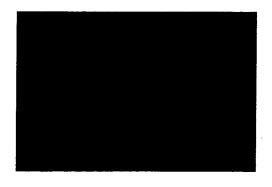
 $A: \hbox{-($CR_2$)}_n\hbox{--, -($CR_2$)}_n\hbox{-COO-, -($CR_2$)}_n\hbox{-NHCO-, -($CR_2$)}_n\hbox{-OCO-, -($CR_2$)}_n\hbox{-O-,}$

–O– , –O–O– , etc. [in which R is H, $C_{1{\sim}3}$ alkyl group, and

n is 0, or an integer of 1 or more]

B:-CR₁=CR₂R₃ [in which R₁ is H, -COOH, C₁₋₃ alkyl group, halogen group, halogenated alkyl group, and R₂ and R₃ is independently H, C₁₋₃₀ alkyl group, -CN, -COOH, halogen group, unsaturated aliphatic hydrocarbon group having at least one carbon-carbon double bond, ——, (wherein R' is halogen group, nitro group, hydroxy group, etc.), etc.]

Fig. 2

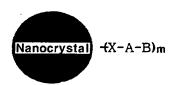


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FIGURES

Fig. 1



X:-COO, -S, -NH₂, -CN, etc.

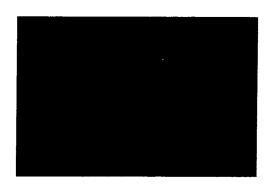
 $A: \text{-(CR$_2$)}_{n}\text{-, -(CR$_2$)}_{n}\text{-COO-, -(CR$_2$)}_{n}\text{-NHCO-, -(CR$_2$)}_{n}\text{-OCO-, -(CR$_2$)}_{n}\text{-O-,}$

–O– , –O–O– , etc. [in which R is H, $C_{1\sim3}$ alkyl group, and

n is 0, or an integer of 1 or more]

B: -CR₁=CR₂R₃ [in which R₁ is H, -COOH, C₁₋₃ alkyl group, halogen group, halogenated alkyl group, and R₂ and R₃ is independently H, C₁₋₃₀ alkyl group, -CN, -COOH, halogen group, unsaturated aliphatic hydrocarbon group having at least one carbon-carbon double bond, $-\bigcirc$, $-\bigcirc$ (wherein R' is halogen group, nitro group, hydroxy group, etc.), etc.]

Fig. 2



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Fig. 3

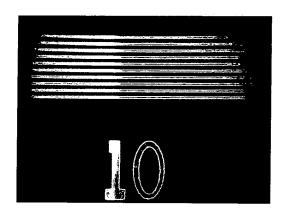


Fig. 4



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Fig. 3

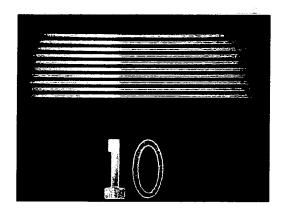


Fig. 4



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Fig. 3

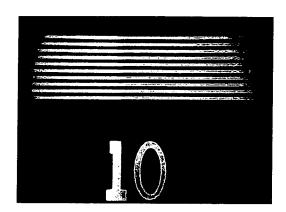


Fig. 4



IANOCRYSTALS, PHOTOSENSITIVE COMPOSITION COMPRISING SEMICONDUCTOR IANOCRYSTALS AND METHOD FOR FORMING SEMICONDUCTOR NANOCRYSTAL ATTERN USING THE SAME

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Fig. 5a

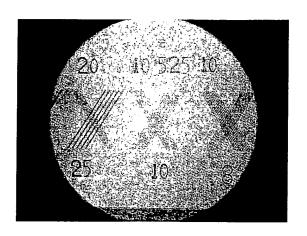
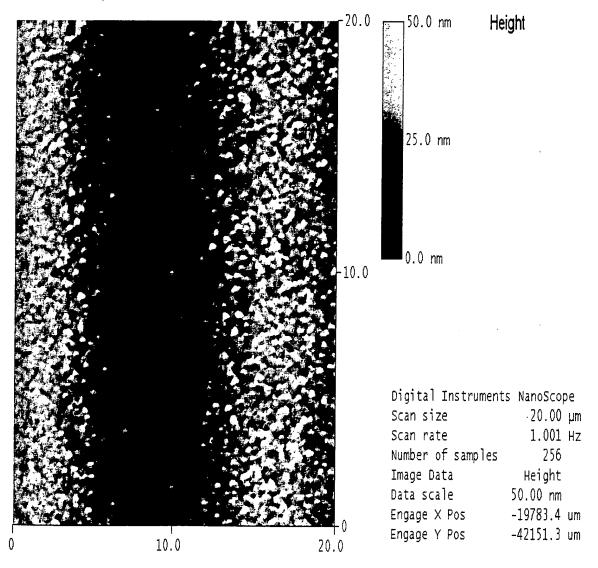


Fig. 5b



VANOCRYSTALS, PHOTOSENSITIVE COMPOSITION COMPRISING SEMICONDUCTOR VANOCRYSTALS AND METHOD FOR FORMING SEMICONDUCTOR NANOCRYSTAL PATTERN USING THE SAME

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Fig. 5a

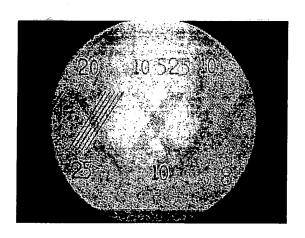
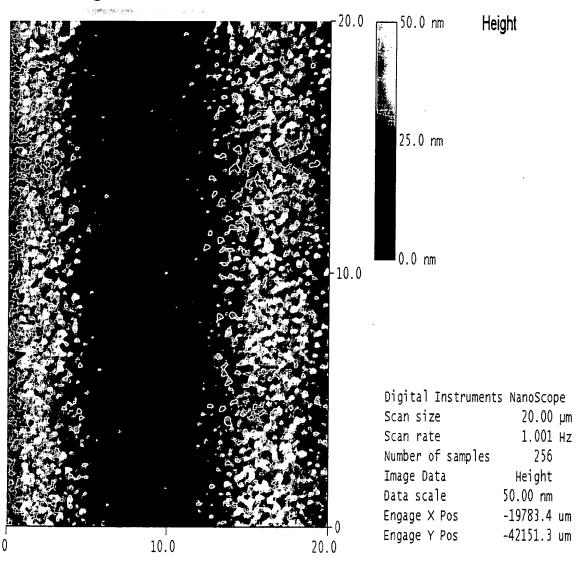


Fig. 5b



JANOCRYSTALS, PHOTOSENSITIVE COMPOSITION COMPRISING SEMICONDUCTOR JANOCRYSTALS AND METHOD FOR FORMING SEMICONDUCTOR NANOCRYSTAL PATTERN USING THE SAME

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Fig. 5a

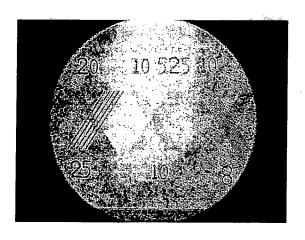
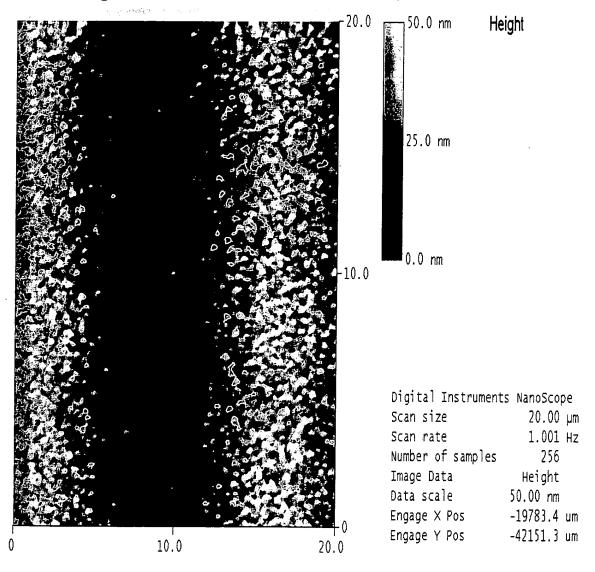


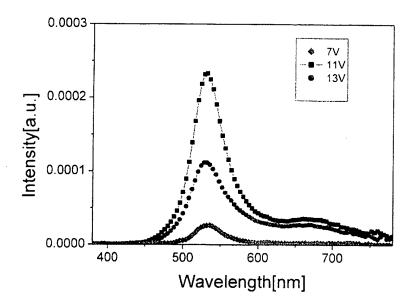
Fig. 5b



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Fig. 6



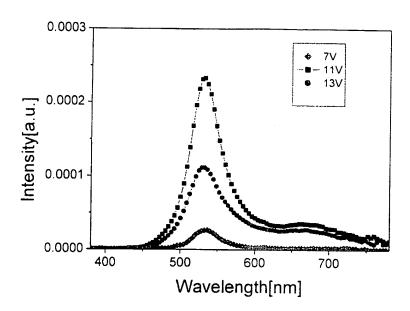
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FORMING SEMICONDUCTOR NANOCRYSTAL PATTERN USING THE SAME

INVENTOR(S): PARK, JONG JIN ET. AL. ATTORNEY DOCKET NO.: 021269-013

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Fig. 6



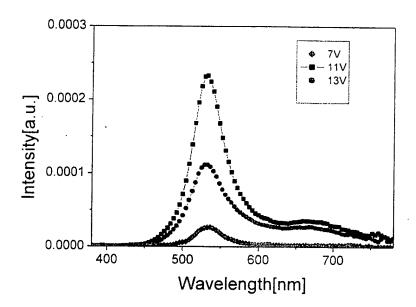
TITLE: PHOTOSENSITIVE SEMICONDUCTOR NANOCRYSTALS, PHOTOSENSITIVE COMPOSITION COMPRISING SEMICONDUCTOR NANOCRYSTALS AND METHOD FOR

FORMING SEMICONDUCTOR NANOCRYSTAL PATTERN USING THE SAME

INVENTOR(S): PARK, JONG JIN ET. AL. ATTORNEY DOCKET NO.: 021269-013

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Fig. 6



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